City of Tempe P. O. Box 5002 31 East Fifth Street Tempe, AZ 85280 480-350-8341 www.tempe.gov



Development Services Department Building Safety Division

June 9, 1999

## Water Pressures allowed for AFES calculation purposes

To whom it may concern:

Due to the City of Tempe Water Departments seasonal fluctuations in water pressures and with proposed changes in the water distribution system within the high pressure zones of the city, the maximum static water pressure allowed for calculation purposes will be a static pressure of 65 PSI. A current flow test will still be required for all projects in review to determine if they have at least 65 PSI available.

For the purposes of hydraulically calculating AFES systems the following maximum design pressures and flow will apply.

Water Supply Main Size	Static Pressure	Residual Pressure	Flow (GPM)
6"	65 PSI	52 PSI	1050 GPM
8"	65 PSI	60 PSI	1230 GPM
12" – 24"	65 PSI	62 PSI	1320 GPM

If a current flow test shows that the available water pressure and flow minus 10% is less than the maximum values above, adjust the flow test values for seasonal fluctuations by reducing the values by 10%.

All new AFES plans submitted for review after Aug. 1, 1999, will be required to be designed to this standard. Until Aug. 1, it is still the contractors / designers responsibility as required by NFPA 13-A-7-2.1, to adjust your design values to be representative of the supply that will be available at all times, taking into account seasonal fluctuations and peak demands on the systems being connected to.